

Curriculum Vitae, Dr. Oleg Obolensky

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Research:

Current projects:

- Peptide fragmentation studies for protein identification and sequencing through collision induced dissociation in tandem mass spectrometry
- Energy minimization formulation of electrostatics suitable for biomolecular systems

Previous research:

- *Molecular and biological physics*: structure formation and stability of molecular complexes, statistical analysis and characterization of unfolded polypeptides, molecular mechanisms of DNA damage
- *Atomic cluster physics*: electronic and ionic structure of metal clusters, fission processes
- *Theoretical atomic physics*: ordinary and polarizational bremsstrahlung, electron correlations in atoms, photon interactions with atoms
- *Theory of solid state*: electron-electron interactions in solids, optical properties of metal-semiconductor structures.

Employment and visiting appointments:

- *January 2008 – present*: contracting Research Specialist at the National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, Bethesda, MD, USA.
- *October 2004 – December 2007*: Junior Fellow at the Frankfurt Institute for Advanced Studies, Johann Wolfgang Goethe-University, Frankfurt am Main, Germany.
- *November 2002 – April 2004*: NATO/NSF Fellow and Research Associate at the Department of Physics and Astronomy, University of Pittsburgh, Pittsburgh, PA, USA.
- *April 2000 – November 2001*: Research Associate at the Department of Physics and Astronomy, University of Pittsburgh, Pittsburgh, PA, USA.
- *May 1999 – present*: Research Fellow at the A. F. Ioffe Physical-Technical Institute of the Russian Academy of Sciences, Saint Petersburg, Russia

Education: A. F. Ioffe Physical Technical Institute, Russian Academy of Sciences & School of Electronics at St. Petersburg State Electrotechnical University, St. Petersburg, Russia.

- **1996** Master of Science (Diploma work: "Influence of exchange interaction on band gap narrowing in semiconductors". Diploma with honor)
- **2000** Candidate of Physical and Mathematical Sciences in theoretical physics, equivalent to Ph.D. degree (Ph.D. thesis: "Polarizational bremsstrahlung from inner shell electrons")

Main Academic Honors:

- NATO/NSF Postdoctoral Fellowship (November 2002 – October 2003), USA
- Fellowship in Physics for talented young scientists sponsored by the Russian Foundation for Basic Research (January 2001 – December 2001), St. Petersburg, Russia
- Graduate student fellowship from the Soros Foundation (1998), St. Petersburg, Russia
- Prize winner of the St. Petersburg City competition of PhD student research (1997 & 1998), St. Petersburg, Russia
- Prize winner of the Russian National competition of student research (1995), Russia

Memberships:

- American Physical Society
- American Society for Mass Spectrometry